

ARDEX CA 20 T

Safety Data Sheet

In accordance with the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014



Issue date: 10/26/2023

Revision date:

Supersedes:

Version: 1.0

www.ardex.com.tr

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : ARDEX CA 20 T

1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Construction materials
Use of the substance/mixture : adhesives

Function or use category : Construction materials

1.3. Details of the supplier of the safety data sheet

Supplier

ARDEX Yapı Malzemeleri Limited Sirketi
İstanbul Deri Organize Sanayi Bölgesi
Desen Sok. No:14/A C1 Özel Parsel
Tuzla/İstanbul Türkiye
T +90 (216) 394 01 14 - F + 90 (216) 394 03 77
info@ardex.com.tr - www.ardex.com.tr

1.4. Emergency telephone number

Emergency number : 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Serious eye damage/eye irritation, Category 2 H319

Skin sensitisation, Category 1 H317

Full text of H-statements: see section 16

2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Hazard pictograms (SEA) :



GHS07

Signal word (SEA) :

Warning

Hazardous ingredients :

trimethoxyvinylsilane; N-[3-(Trimethoxysilyl)propyl]ethylenediamine

Hazard statements (SEA) :

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (SEA) :

P261 - Avoid breathing spray, vapours, gas, mist, fume, dust.

P280 - Wear protective clothing, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.



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P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, an approved waste disposal plant.
P102 - Keep out of reach of children.

2.3. Other hazards

Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.
trimethoxyvinylsilane	CAS-No.: 2768-02-7 EC-No.: 220-449-8 EC Index-No.: 014-049-00-0	< 1.5	Flam. Liq. 3, H226
N-[3-(Trimethoxysilyl)propyl]ethylenediamine	CAS-No.: 1760-24-3 EC-No.: 217-164-6	< 1	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2	< 1	Not classified
dibutyltin dilaurate	CAS-No.: 77-58-7 EC-No.: 201-039-8 EC Index-No.: 050-030-00-3	< 0.1	Muta. 2, H341 Repr. 1B, H360FD STOT RE 1, H372 Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic vapours.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. See Section 8.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Store in a dry place.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

trimethoxyvinylsilane (2768-02-7)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	3.9 mg/kg bw/day
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trimethoxyvinylsilane (2768-02-7)

Long-term - systemic effects, inhalation	27.6 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.3 mg/kg bw/day
Long-term - systemic effects, inhalation	18.9 mg/m ³
Long-term - systemic effects, dermal	7.8 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0.4 mg/l
PNEC aqua (marine water)	0.04 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.5 mg/kg dwt
PNEC sediment (marine water)	0.15 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.06 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	6.6 mg/l

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	130 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	26400 mg/m ³
Long-term - systemic effects, oral	4 mg/kg bw/day
Long-term - systemic effects, inhalation	26 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.05 mg/l
PNEC aqua (marine water)	0.005 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.181 mg/kg dwt
PNEC sediment (marine water)	0.018 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.007 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l

dibutyltin dilaurate (77-58-7)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2.08 mg/kg bw/day
Acute - systemic effects, inhalation	0.059 mg/m ³
Long-term - systemic effects, dermal	0.43 mg/kg bw/day
Long-term - systemic effects, inhalation	0.02 mg/m ³



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dibutyltin dilaurate (77-58-7)

DNEL/DMEL (General population)

Acute - systemic effects, dermal	0.5 mg/kg bw/day (Experimental value)
Acute - systemic effects, inhalation	0.04 mg/m ³ (Experimental value)
Acute - systemic effects, oral	0.02 mg/kg bw/day (Experimental value)
Long-term - systemic effects, oral	0.003 mg/kg bw/day (Experimental value)
Long-term - systemic effects, inhalation	0.005 mg/m ³ (Experimental value)
Long-term - systemic effects, dermal	0.16 mg/kg bw/day (Experimental value)

PNEC (Water)

PNEC aqua (freshwater)	< 0.001 mg/l
PNEC aqua (marine water)	< 0.001 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0.05 mg/kg dwt
PNEC sediment (marine water)	0.005 mg/kg dwt

PNEC (Soil)

PNEC soil	0.041 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	0.2 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Wear protective clothing.
Hand protection	:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	Please follow the instructions related to the permeability and the penetration time provided by the manufacturer, 6 (> 480 minutes)	> 0,4 mm	Refer to supplier/manufacturer	EN ISO 374

Personal protective equipment symbol(s)



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste.
Colour	: white Grey Black
Odour	: characteristic
Odour threshold	: No data available



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pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1.57 – 1.63 g/ml
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : < 27 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

trimethoxyvinylsilane (2768-02-7)

LD50 oral rat	6899 – 7012 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
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trimethoxyvinylsilane (2768-02-7)

LD50 dermal rabbit	3158 – 3760 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	16.8 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

LD50 oral rat	2295 mg/kg bodyweight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	1.49 – 2.44 mg/l air (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))

dibutyltin dilaurate (77-58-7)

LD50 oral rat	2071 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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dibutyltin dilaurate (77-58-7)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: Not classified
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

trimethoxyvinylsilane (2768-02-7)

LC50 - Fish [1]	191 mg/l (96 h, Oncorhynchus mykiss, Fresh water, Experimental value, Nominal concentration)
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trimethoxyvinylsilane (2768-02-7)

EC50 - Crustacea [1]	168.7 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 89 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

LC50 - Fish [1]	597 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	81 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	8.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)

titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

LC50 - Fish [1]	> 1000 mg/l (Pisces, Fresh water)
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

dibutyltin dilaurate (77-58-7)

LC50 - Fish [1]	3.1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	< 463 µg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

12.2. Persistence and degradability

trimethoxyvinylsilane (2768-02-7)

Persistence and degradability	Not readily biodegradable in water.
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N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

Persistence and degradability	Not readily biodegradable in water.
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titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

dibutyltin dilaurate (77-58-7)

Persistence and degradability	Not readily biodegradable in water.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available
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trimethoxyvinylsilane (2768-02-7)

Partition coefficient n-octanol/water (Log Pow)	1.1 (QSAR, KOWWIN, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).



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N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

Partition coefficient n-octanol/water (Log Pow) -0.3 (QSAR, 20 °C)

Bioaccumulative potential Not bioaccumulative.

titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

Bioaccumulative potential Not bioaccumulative.

dibutyltin dilaurate (77-58-7)

Partition coefficient n-octanol/water (Log Pow) 4.44 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.8 °C)

Bioaccumulative potential Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).

12.4. Mobility in soil

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Mobility in soil No additional information available

trimethoxyvinylsilane (2768-02-7)

Surface tension No data available in the literature

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 2.811 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Ecology - soil Low potential for adsorption in soil.

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)

Surface tension No data available in the literature

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 3.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Ecology - soil Low potential for mobility in soil.

titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)

Surface tension No data available in the literature

Ecology - soil Low potential for mobility in soil.

dibutyltin dilaurate (77-58-7)

Surface tension No data available in the literature

Ecology - soil No (test)data on mobility of the substance available.

12.5. Results of PBT and vPvB assessment

No additional information available

Component

trimethoxyvinylsilane (2768-02-7)

This substance/mixture does not meet the PBT criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014
This substance/mixture does not meet the vPvB criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014



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Component

N-[3-(Trimethoxysilyl)propyl]ethylenediamine (1760-24-3)	This substance/mixture does not meet the PBT criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014 This substance/mixture does not meet the vPvB criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014
titanium(IV) oxide; [in powder form containing < 1 % or more of particles with aerodynamic diameter \leq 10 μm] (13463-67-7)	This substance/mixture does not meet the PBT criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014 This substance/mixture does not meet the vPvB criteria according to the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014

12.6. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable



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Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport
No data available

Transport by sea
No data available

Air transport
No data available

Inland waterway transport
No data available

Rail transport
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances published in the Official Journal numbered 30031 on April 7, 2017.

VOC content : < 27 g/l

SECTION 16: Other information

Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H226	Flammable liquid and vapour.



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Full text of H- and EUH-statements

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

Safety Data Sheet author's

Name	Gökhan Ardiç
Certificate number	Lonca KDU 34 / 2020.08
Certificate valid until	22/09/2025
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.